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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/644,879	08/21/2003	Donald Egland	687-123	7052
23117	7590	06/16/2004	EXAMINER	
NIXON & VANDERHYE, PC			EGWIM, KELECHI CHIDI	
1100 N GLEBE ROAD			ART UNIT	PAPER NUMBER
8TH FLOOR			1713	
ARLINGTON, VA 22201-4714			DATE MAILED: 06/16/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/644,879	EAGLAND ET AL.	
Examiner	Art Unit		
Dr. Kelechi C. Egwim	1713		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM

A SHORTENED STATUTORY PERIOD FOR THE
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 12 May 2004.
2a) This action is FINAL. 2b) This action is non-final.
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 17-35 is/are pending in the application.
4a) Of the above claim(s) 33-35 is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 17-32 is/are rejected.

7) Claim(s) 24 and 28 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. 09/269,095.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No/s/Mail Date 082103.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ .

5) Notice of Informal Patent Application (PTO-152)

6) Other: ____ .

DETAILED ACTION

Election/Restrictions

1. Claims 33-35 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to nonelected inventions, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 05/12/2004.

Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Objections

3. Claims 24 and 28 are objected to because of the following informalities: The "(+)" is missing from the formula in claim 24 and the parentheses should be deleted from the last line of claim 28. Appropriate correction is required.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 17-32 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to

make and/or use the invention. The specification does not reasonably provide enablement for the variable "n" in the compound of claim 17 to be **any integer**. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make or use the presently claimed polymer, having an unlimited degree of polymerization, commensurate in scope with these claims.

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claims 17-32 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

8. The "n" variable in the formula of claim 17 has an "infinite" value and renders claims 17-32 indefinite. The variable is not properly defined by the claim (since an integer could be any natural number from $-\infty$ to $+\infty$) and the specification does not provide any molecular weight or degree of polymerization information to use as a standard for ascertaining the claimed value of "n" for the claimed first compound. One of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

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9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

10. Claims 17-22, 25 and 26 are rejected under 35 U.S.C. 102(b) as being anticipated by Williams et al. (GB 1211193).

In page 2, lines 16-34, Williams et al. teach a head-to-head/tail-to-tail polymer, wherein the monomer is asymmetric about the alkenic double bond, which encompasses the presently claimed compound.

Thus, the requirements for rejection under 102(b) are met.

11. Claims 17-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Li et al. (*Photodimerization of 4'-formyl-4-stilbazole compounds in solid media*, Ganguang Kexue Yu Guang Huaxue, (1994), 12(1), 51-57).

Li et al. teach a dimer of 4-[2-(4-formylphenyl)ethenyl]-1-methyl-pyridinium salt.

Thus, the requirements for rejection under 102(b) are met.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Kelechi C. Egwim whose telephone number is (571) 272-1099. The examiner can normally be reached on M-T (7:30-6:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KCE

KELECHI C. EGWIM PH.D.
PRIMARY EXAMINER

